Report Missing

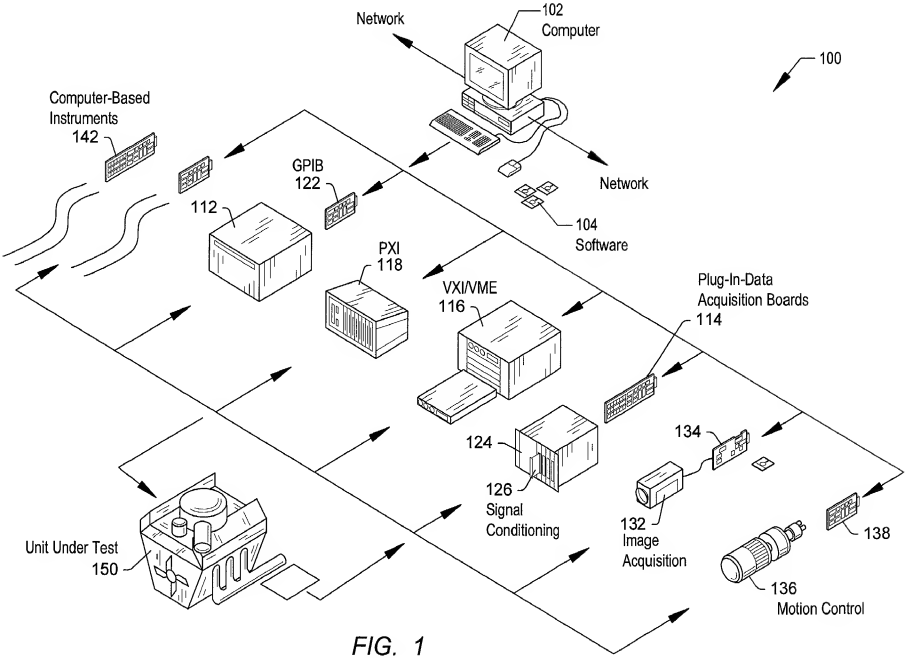

FIG. 1

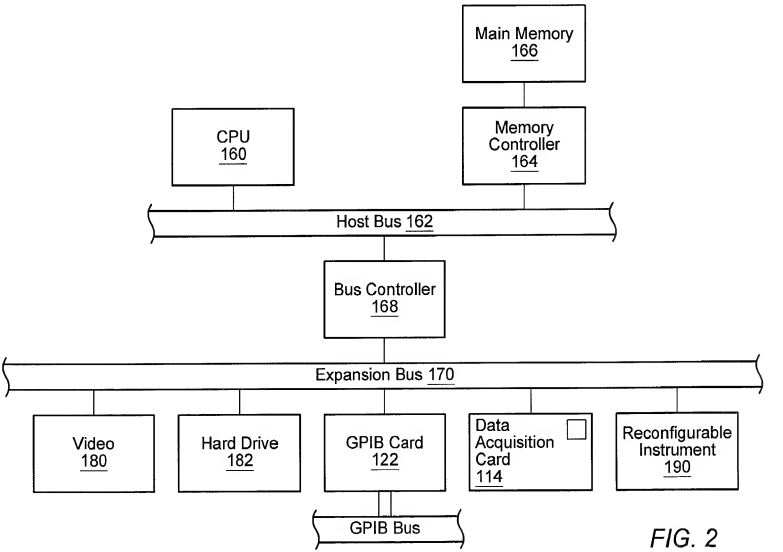
Main Memory
166
CPU
160
Memory
Controller
164
Host Bus 162
Bus Controller
168
Expansion Bus 170
Video
180
Hard Drive
182
GPIB Card
122
Data
Acquisition
Card
114
Reconfigurable
Instrument
190
GPIB Bus

FIG. 2

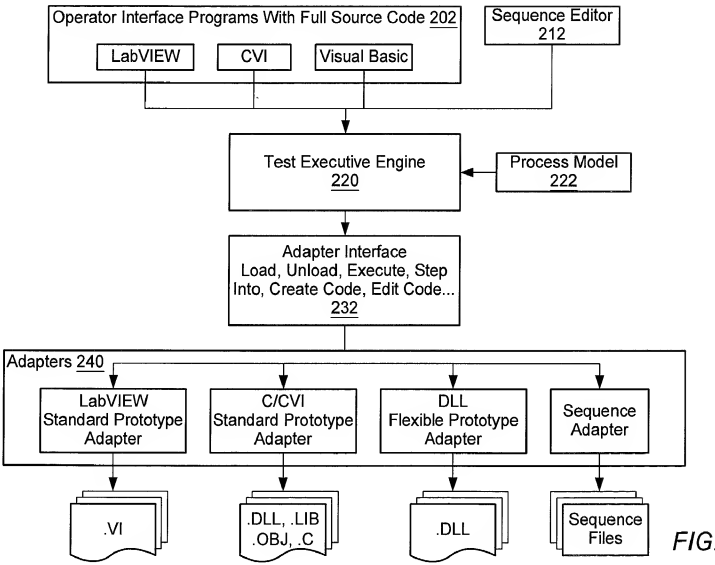
Operator Interface Programs With Full Source Code 202
LabVIEW
CVI
Visual Basic
Sequence Editor 212
Test Executive Engine 220
Process Model 222
Adapter Interface Load, Unload, Execute, Step Into, Create Code, Edit Code... 232
Adapters 240
LabVIEW Standard Prototype Adapter
C/CVI Standard Prototype Adapter
DLL Flexible Prototype Adapter
Sequence Adapter
.VI
.DLL, .LIB .OBJ, .C
.DLL
Sequence Files

FIG. 3

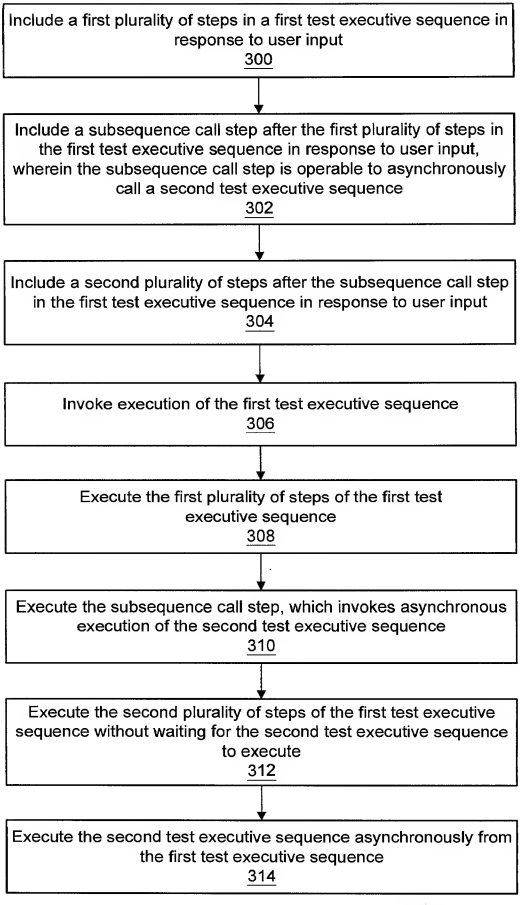
Include a first plurality of steps in a first test executive sequence in response to user input
300
Include a subsequence call step after the first plurality of steps in the first test executive sequence in response to user input, wherein the subsequence call step is operable to asynchronously call a second test executive sequence
302
Include a second plurality of steps after the subsequence call step in the first test executive sequence in response to user input
304
Invoke execution of the first test executive sequence
306
Execute the first plurality of steps of the first test executive sequence
308
Execute the subsequence call step, which invokes asynchronous execution of the second test executive sequence
310
Execute the second plurality of steps of the first test executive sequence without waiting for the second test executive sequence to execute
312
Execute the second test executive sequence asynchronously from the first test executive sequence
314

FIG. 4

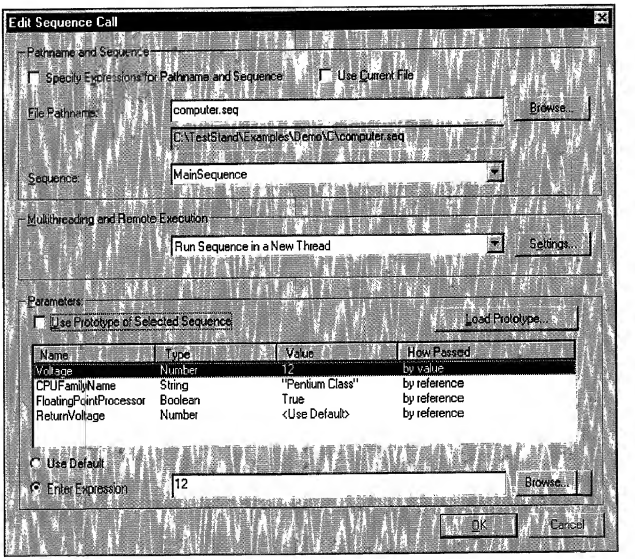
Edit Sequence Call
Pathname and Sequence
Specify Expressions for Pathname and Sequence
Use Current File
File Pathname:
computer.seq
Browse...
C:\TestStand\Examples\Demo\C\computer.seq
Sequence:
MainSequence
Multithreading and Remote Execution
Run Sequence in a New Thread
Settings...
Parameters
Use Prototype of Selected Sequence
Load Prototype...
Name
Type
Value
How Passed
Voltage
Number
12
by value
CPUFamilyName
String
"Pentium Class"
by reference
FloatingPointProcessor
Boolean
True
by reference
ReturnVoltage
Number
<Use Default>
by reference
Use Default
Enter Expression
12
Browse...
OK
Cancel

FIG. 5

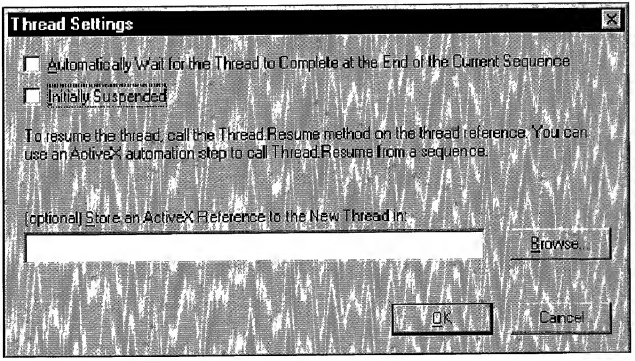
Thread Settings
Automatically Wait for the Thread to Complete at the End of the Current Sequence
Initially Suspended
To resume the thread, call the Thread.Resume method on the thread reference. You can use an ActiveX automation step to call Thread.Resume from a sequence.
(optional) Store an ActiveX Reference to the New Thread in:
Browse...
OK
Cancel

FIG. 6

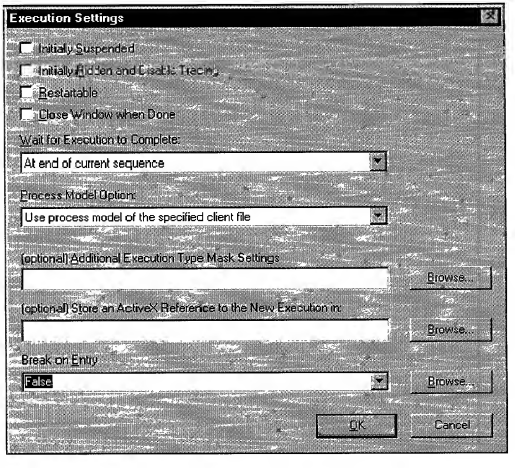
Execution Settings
Initially Suspended
Initially Hidden and Disable Tracing
Restartable
Close Window when Done
Wait for Execution to Complete:
At end of current sequence
Process Model Option:
Use process model of the specified client file
[optional] Additional Execution Type Mask Settings
Browse...
[optional] Store an ActiveX Reference to the New Execution in:
Browse...
Break on Entry
False
Browse...
OK
Cancel

FIG. 7

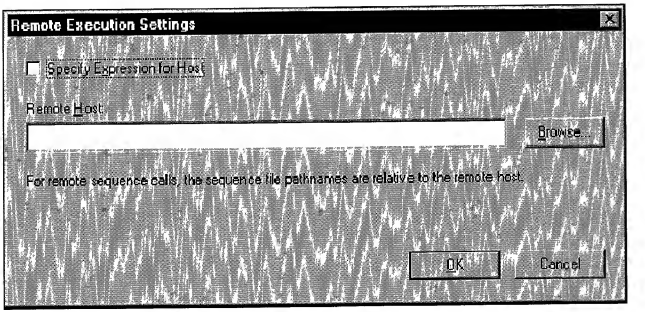
Remote Execution Settings
Specify Expression for Host
Remote Host:
Browse...
For remote sequence calls, the sequence file pathnames are relative to the remote host.
OK
Cancel

FIG. 8

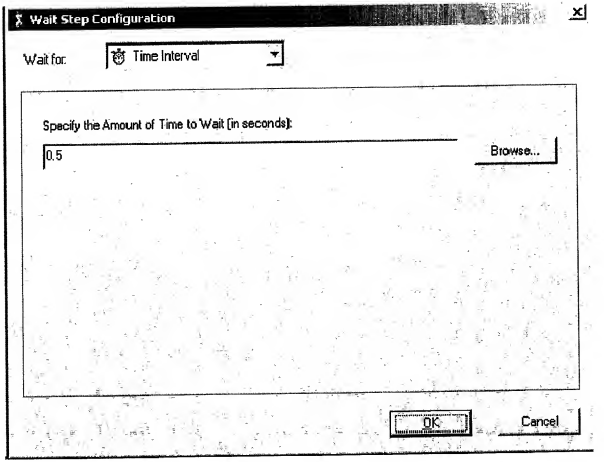
Wait Step Configuration
Wait for:
Time Interval
Specify the Amount of Time to Wait (in seconds):
0.5
Browse...
OK
Cancel

FIG. 9

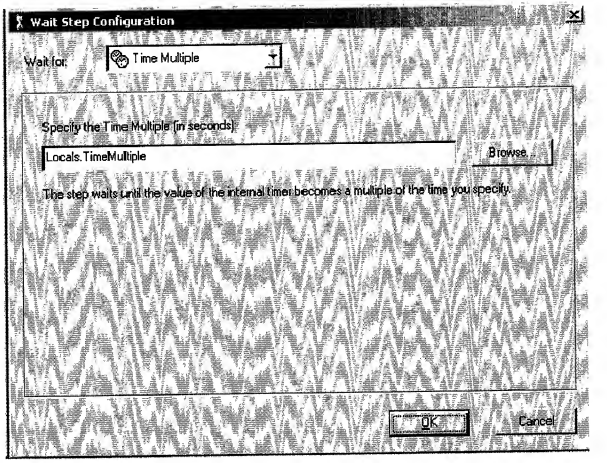
Wait Step Configuration
Wait for:
Time Multiple
Specify the Time Multiple (in seconds):
Locals.TimeMultiple
Browse...
The step waits until the value of the internal timer becomes a multiple of the time you specify.
OK
Cancel

FIG. 10

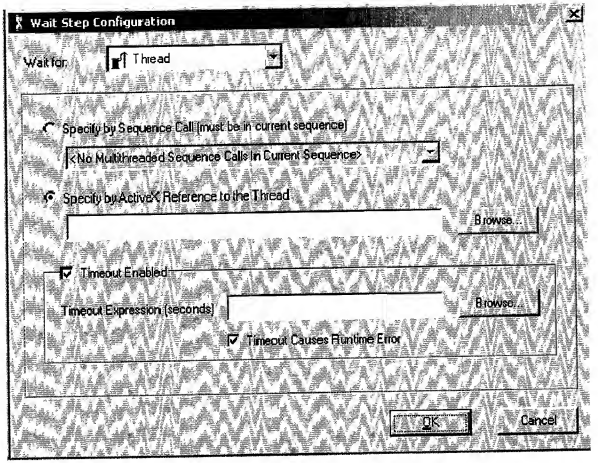
Wait Step Configuration
Wait for:
Thread
Specify by Sequence Call (must be in current sequence)
<No Multithreaded Sequence Calls In Current Sequence>
Specify by ActiveX Reference to the Thread
Browse...
Timeout Enabled
Timeout Expression (seconds)
Browse...
Timeout Causes Runtime Error
OK
Cancel

FIG. 11

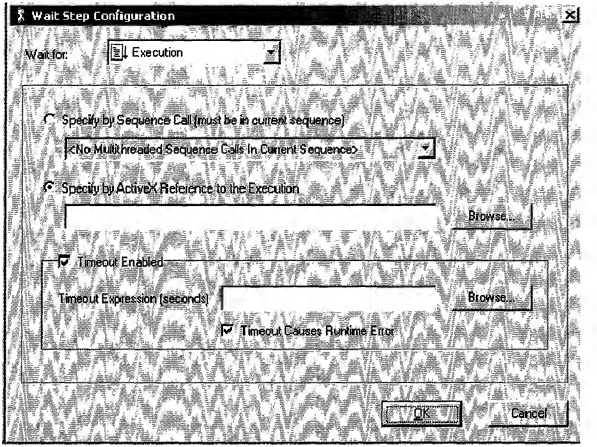
Wait Step Configuration
Wait for:
Execution
Specify by Sequence Call (must be in current sequence)
<No Multithreaded Sequence Calls In Current Sequence>
Specify by ActiveX Reference to the Execution
Browse...
Timeout Enabled
Timeout Expression (seconds)
Browse...
Timeout Causes Runtime Error
OK
Cancel

FIG. 12

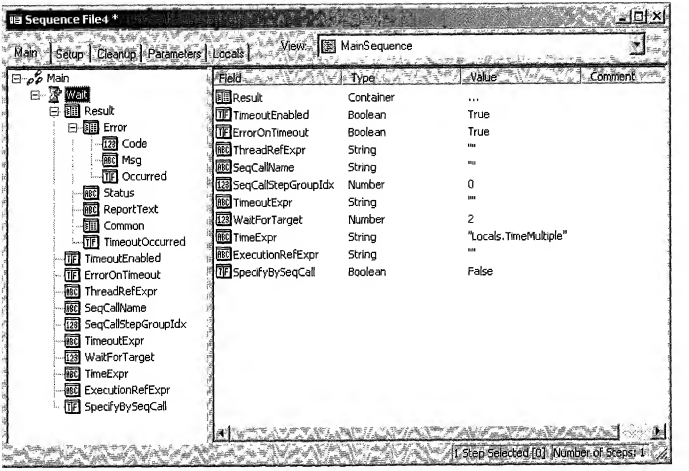
Sequence File4 *
Main
Setup
CleanUp
Parameters
Locals
View:
MainSequence
Main
Wait
Result
Error
Code
Msg
Occurred
Status
ReportText
Common
TimeoutOccurred
TimeoutEnabled
ErrorOnTimeout
ThreadRefExpr
SeqCallName
SeqCallStepGroupIdx
TimeoutExpr
WaitForTarget
TimeExpr
ExecutionRefExpr
SpecifyBySeqCall
Field
Type
Value
Comment
Result
Container
...
TimeoutEnabled
Boolean
True
ErrorOnTimeout
Boolean
True
ThreadRefExpr
String
""
SeqCallName
String
""
SeqCallStepGroupIdx
Number
0
TimeoutExpr
String
""
WaitForTarget
Number
2
TimeExpr
String
"Locals.TimeMultiple"
ExecutionRefExpr
String
""
SpecifyBySeqCall
Boolean
False
[Step Selected [0] Number of Steps 1

FIG. 13